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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B7/18 E21B10/60 E21B41/00 B24C5/04 B24C1/04 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 E21B B24C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category * 1.8 EP 0 119 338 A (JETIN IND LTD) X 26 September 1984 (1984-09-26) page 7, lines 21-23 figure 1 2.11 γ 1-4.8.9US 4 555 872 A (YIE GENE G) 3 December 1985 (1985-12-03) column 17, lines 20-23 column 17, lines 37-39 column 17, lines 50-54 X figure 1 2 Y WO 00/66872 A (SHELL CANADA LTD ; SHELL INT 11 γ RESEARCH (NL)) 9 November 2000 (2000-11-09) the whole document -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the investigation." Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *E* earlier document but published on or after the international filing date "" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the International search 25/01/2005 14 January 2005 Authorized officer Name and mailing address of the ISA ng acuress of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijsvijk Tel. (431–70) 340–2040, Tx. 31 651 epo nl, Fax: (431–70) 340–3016

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